

AMENDMENTS TO THE CLAIMS

Please amend the claims by inserting the underlined matter and deleting the matter lined through.

- 1 1. (Currently amended) A fuel pump assembly for a combustion engine, comprising:
2 a pump housing,
3 a hollow mounting arm connected to said pump housing configured for mounting
4 to a combustion engine for supporting said fuel pump assembly on said combustion
5 engine,
6 said pump housing having a longitudinal axis and a curved exterior surface
7 substantially co-axial with respect to said longitudinal axis,
8 a flexible diaphragm in said pump housing, and
9 a diaphragm actuator in said hollow mounting arm for reciprocating said
10 diaphragm positioned in said pump housing,
11 said diaphragm extending substantially normal to said longitudinal axis and
12 having a central portion movable substantially parallel to said longitudinal axis in
13 response to the movement of said diaphragm actuator,
14 said pump housing including a plurality of heat transfer fins extending externally
15 of said pump housing and oriented parallel to said diaphragm, so that air tends to be
16 guided by said fins about the pump housing,
17 a plurality of heat transfer fins extending externally of said hollow mounting arm
18 for exchanging heat with the atmosphere and reducing the transfer of heat from the
19 combustion engine through the hollow mounting arm to the pump housing to reduce the
20 likelihood of vaporization of fuel moved through the fuel pump.

1 2. (Original) The fuel pump assembly of claim 1, wherein
2 said heat transfer fins substantially encircle said pump housing and form there
3 between air channels that substantially encircle said pump housing for guiding air about
4 said pump housing.

1 3. (Original) The fuel pump assembly of claim 1, wherein
2 said pump housing includes a pump bowl and a hood, both of which include said
3 heat transfer fins.

1 4 (Original) The fuel pump assembly of claim 1, wherein
2 said pump bowl includes inlet and outlet ports, and
3 said heat transfer fins are interrupted by said inlet and outlet ports.

1 5. (Currently amended) A fuel pump assembly for a combustion engine comprising:
2 a pump housing, said pump housing having a longitudinal axis, including:
3 a pump bowl including an exterior wall substantially coaxial with respect to said
4 longitudinal axis,
5 a hood mounted to said pump bowl and substantially coaxial with respect to said
6 longitudinal axis,
7 a diaphragm mounted between said pump bowl and said hood and extending
8 normal to said longitudinal axis and having a central portion movable parallel to said
9 longitudinal axis,

10 a mounting arm connected to said hood for mounting said pump housing and said
11 hood to the combustion engine,

12 a plurality of parallel heat transfer fins extending externally of said pump bowl,
13 and said hood and said mounting arm substantially encircling said pump bowl and said
14 hood and projecting from said mounting arm for the transfer of heat received from the
15 combustion engine to the surrounding air before the heat moves through the mounting
16 arm to said pump housing, and

17 said pump bowl including inlet and outlet ports.

1 6. The fuel pump assembly of claim 5, wherein

2 said heat transfer fins extend normal to said longitudinal axis, and said heat
3 transfer fins being interrupted by said inlet and outlet ports.

1 7. A fuel pump assembly of claim 5, and further comprising:

2 a mounting arm extending from said hood for mounting said fuel pump to an
3 engine block, and

4 cooling fins extending from said mounting arm for extracting heat conducted from
5 the engine block to the mounting arm.

1 8. (Currently amended) A fuel pump assembly for an internal combustion engine of
2 an automobile, the engine having an exterior surface at which atmospheric air tends to
3 flow in an approximately constant direction in response to the movement of the
4 automobile in a forward direction, said fuel pump comprising:

5 a pump housing,
6 a diaphragm fuel impeller in said housing,
7 a fuel inlet port and a fuel outlet port extending through said pump housing for
8 moving fuel into and out of said pump housing,
9 a mounting arm connected to said pump housing for mounting said pump housing
10 to the internal combustion engine,
11 a diaphragm actuator extending through said mounting arm,
12 a plurality of cooling fins extending from said pump housing and from
13 said mounting arm,
14 said cooling fins that extend from said pump housing being oriented substantially
15 parallel to the anticipated direction of the flow of the air at the exterior surface of the
16 engine for channeling the air about said pump housing and increasing the transfer of heat
17 from said pump housing.

1 9. (Currently amended) The fuel pump assembly of claim 8, wherein said ~~fuel~~
2 ~~impeller in said housing comprises a diaphragm~~ extends ~~extending~~ parallel to said cooling
3 fins.

1 10. (Cancelled).